

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for providing captioning in an AV signal, the method comprising:

selecting a number of lines of caption data which can be displayed at one time;

automatically identifying a voice and speech pattern in an audio signal from a plurality of voice and speech patterns with the speech-to-text processing system;

training a speech-to-text processing system to learn one or more new words in the audio signal;

converting and directly translating the audio signal in the AV signal to caption data automatically with the speech-to-text processing system, wherein the direct translation is adjusted by the speech-to-text processing system based on the training and the identification of the voice and speech pattern; and

associating the caption data with the AV signal at a time substantially corresponding to a video signal associated with the converted audio signal in the AV signal from which the caption data was directly translated with the speech-to-text processing system, wherein the associating further comprises synchronizing the caption data with one or more cues in the AV signal; and

displaying the AV signal with the caption data at the time substantially corresponding with the converted audio signal in the AV signal, wherein the number of lines of caption data which is displayed is based on the selection.

2. (Original) The method as set forth in claim 1 further comprising:

capturing the AV signal, the AV signal comprising the audio signal and the video signal; and

providing the audio signal in the AV signal for the converting.

3. (Original) The method as set forth in claim 1 wherein the converting further comprises:

determining a first amount of data in the caption data; and

providing the caption data for the associating when the first amount is greater than a threshold amount or when a first period of time has expired.

4. (Cancelled)

5. (Original) The method as set forth in claim 1 wherein the associating further comprises embedding the caption data within the AV signal.

6. (Original) The method as set forth in claim 1 further comprising displaying at least the video signal and the associated caption data.

7. (Original) The method as set forth in claim 1 further comprising storing on at least one recordable medium at least the video signal and the associated caption data.

8. (Original) The method as set forth in claim 1 wherein the converting further comprises translating at least one word in a first language of the audio signal into a second language, the at least one translated word included in the caption data.

9. (Currently Amended) A speech signal processing system, the system comprising:

a speech-to-text processing system that selects a number of lines of caption data which can be displayed at one time, automatically identifies a voice and speech pattern in an audio signal from a plurality of voice and speech patterns, trains to learn one or more new words in the audio signal, and directly translates ~~converts~~ an audio signal in an AV signal to caption data based on the training and the identification of the voice and speech pattern; and

a signal combination processing system that associates the caption data with the AV signal at a time substantially corresponding to ~~a video signal associated with the converted audio signal in the AV signal~~ from which the caption data was directly translated with the speech-to-text processing system, wherein the signal combination processing system synchronizes the caption data with one or more cues in the AV signal; and

a display system that displays the AV signal with the caption data at the time substantially corresponding with the converted audio signal in the AV signal, wherein the number of lines of caption data which is displayed is based on the selection.

10. (Original) The system as set forth in claim 9 further comprising a source for providing the audio signal in the AV signal to the speech-to-text processing system.

11. (Original) The system as set forth in claim 9 wherein the speech-to-text processing system further comprises a counter that determines a first amount of data in the caption data and a timer that determines when a first period of time has expired, wherein the speech-to-text processing system providing the caption data for the associating when the first amount is greater than a threshold amount or when timer indicates that the first period of time has expired.

12. (Cancelled)

13. (Original) The system as set forth in claim 9 wherein the signal combination processing system embeds the caption data within the AV signal.

14. (Original) The system as set forth in claim 9 further comprising a video monitor for displaying at least the video signal and the associated caption data.

15. (Original) The system as set forth in claim 9 further comprising a translator that translates at least one word in a first language of the audio signal into a second language, the at least one translated word included in the caption data, the translating device coupled to the speech recognition processor.

16. (Previously Presented) The system as set forth in claim 9 wherein the signal separation processing system, the speech-to-text processing system and the signal combination processing system are integrated within a device, the device being portable and usable in a classroom environment.

17. (Currently Amended) A computer readable medium having stored thereon instructions for providing captioning which when executed by at least one processor, causes the processor to perform steps comprising:

selecting a number of lines of caption data which can be displayed at one time;

identifying a voice and speech pattern in an audio signal from a plurality of voice and speech patterns with the speech-to-text processing system;

training a speech-to-text processing system to learn one or more new words in the audio signal;

~~converting an~~ directly translating the audio signal in the AV signal to caption data automatically with the speech-to-text processing system, wherein the direct translation is adjusted by the speech-to-text processing system based on the training and the identification of the voice and speech pattern; and

associating the caption data with the AV signal at a time substantially corresponding ~~to a video signal associated~~ with the converted audio signal in the AV signal from which the caption data was directly translated with the speech-to-text processing system, wherein the associating further comprises synchronizing the caption data with one or more cues in the AV signal; and

displaying the AV signal with the caption data at the time substantially corresponding with the converted audio signal in the AV signal, wherein the number of lines of caption data which is displayed is based on the selection.

18. (Original) The medium as set forth in claim 17 further comprising:

capturing the AV signal, the AV signal comprising the audio signal and the video signal; and

providing the audio signal in the AV signal for the converting.

19. (Original) The medium as set forth in claim 17 wherein the converting further comprises:

determining a first amount of data in the caption data; and

providing the caption data for the associating when the first amount is greater than a threshold amount or when a first period of time has expired.

20. (Cancelled)

21. (Original) The medium as set forth in claim 17 wherein the associating further comprises embedding the caption data within the AV signal.

22. (Original) The medium as set forth in claim 17 further comprising displaying at least the video signal and the associated caption data.

23. (Original) The medium as set forth in claim 17 further comprising storing on at least one recordable medium at least the video signal and the associated caption data.

24. (Original) The medium as set forth in claim 17 wherein the converting further comprises translating at least one word in a first language of the audio signal into a second language, the at least one translated word included in the caption data.

25. (New) The method as set forth in claim 1 further comprising:
determining a type of the encoder being used with the speech-to-text processing system; and
retrieving settings for the speech-to-text processing system to communicate with the encoder based on the identification of the encoder.

26. (New) The system as set forth in claim 9 wherein the speech-to-text processing system determining a type of the signal combination processing system being used and retrieves settings for the speech-to-text processing system to communicate with the signal combination processing system based on the identification of the signal combination processing system.

27. (New) The medium as set forth in claim 17 further comprising:
determining a type of the encoder being used with the speech-to-text processing system; and
retrieving settings for the speech-to-text processing system to communicate with the encoder based on the identification of the encoder.